Arsenii Ashukha

PhD Candidate at Bayesian Methods Research Group Student Researcher Samsung Al Center Moscow Home page Google Scholar

EDUCATION

- PhD Candidate, National Research University Higher School of Economics, 2017 Now Topic: Probabilistic deep learning, Advisor: Dmitry Vetrov
- MSc in Applied Math and Computer Science, Moscow Institute of Physics and Technology, 2017 (with distinction)
 Thesis: Sparsification of DNNs probabilistic framework, Advisors: Dmitry Vetrov and Alexey Dral
- BSc in Applied Math and Computer Science, Bauman Moscow State Technical University, 2015
 Thesis: Bigram anchor words topic modeling, Advisor: Natalia Loukachevitch

PROFESSIONAL EXPERIENCE

- Student Researcher at Samsung Al Center (2018 Now):
 Research on probabilistic deep learning, ensembles of DNNs, uncertainty estimation.
- Student Researcher at Yandex Research & University of Amsterdam (2017 2018):
 Research on Bayesian deep learning for a group-level sparsification and uncertainty estimation.
- Research Intern at Lab of Deep Learning and Bayesian Methods HSE (2016 2017): Research on Bayesian deep learning for sparsification and incremental learning.

My responsibility included: selecting research directions, scheduling and executing research agenda, development of machine learning models and algorithms, writing papers.

PUBLICATIONS

- Dmitry Molchanov*, Alexander Lyzhov*, Yuliya Molchanova*, **Arsenii Ashukha***, Dmitry Vetrov **Greedy Policy Search: A Simple Baseline for Learnable Test-Time Augmentation**, UAI (2020).
- Arsenii Ashukha*, Alexander Lyzhov*, Dmitry Molchanov*, Dmitry Vetrov
 Pitfalls of In-Domain Uncertainty Estimation and Ensembling in Deep Learning, ICLR (2020).
- Kirill Neklyudov*, Dmitry Molchanov*, Arsenii Ashukha*, Dmitry Vetrov
 Variance Networks: When Expectation Does Not Meet Your Expectations, ICLR (2019).
- Andrei Atanov*, Arsenii Ashukha*, Kirill Struminsky, Dmitry Vetrov, Max Welling The Deep Weight Prior, ICLR (2019).
- Andrei Atanov, Arsenii Ashukha, Dmitry Molchanov, Kirill Neklyudov, Dmitry Vetrov,
 Uncertainty Estimation via Stochastic Batch Normalization, Workshop Track ICLR (2018).
- Kirill Neklyudov, Dmitry Molchanov, Arsenii Ashukha, Dmitry Vetrov
 Structured Bayesian Pruning via Log-Normal Multiplicative Noise, NeurlPS (2017).
- Dmitry Molchanov*, Arsenii Ashukha*, Dmitry Vetrov
 Variational Dropout Sparsifies Deep Neural Networks ICML (2017).

Full list: scholar.google.com/citations?user=IU-kuP8AAAAJ. *equal contribution.

MISCELLANEOUS

- Reviewing:
 - o Conferences: ICML (2019, 2020), NeurIPS 2019 (top-50% highest-scoring reviewers), ICLR 2020
 - o Workshops: INNF (2019, invertibleworkshop.github.io), BDL (since 2017, bayesiandeeplearning.org)
- Thesis supervision:
 - Alexander Lyzhov (MSc, 2020)
 - o Andrei Atanov (BSc, 2018, MSc, 2020)
- Teaching:
 - Machine Learning at MIPT: TA (2016), Lecturer (2017, 2018)
 - Supervisor of scientific seminars on machine learning at HSE and Yandex (since 2017)
 - o TA at Deep|Bayes Summer School on Bayesian Deep Learning (since 2017), http://deepbayes.ru
- Open-source contributions: See https://github.com/senya-ashukha.